

Energy and Emissions Data and Forecasting for Washington State

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Forecast Total Energy Consumption Based on 2004-10 EIA Analyses

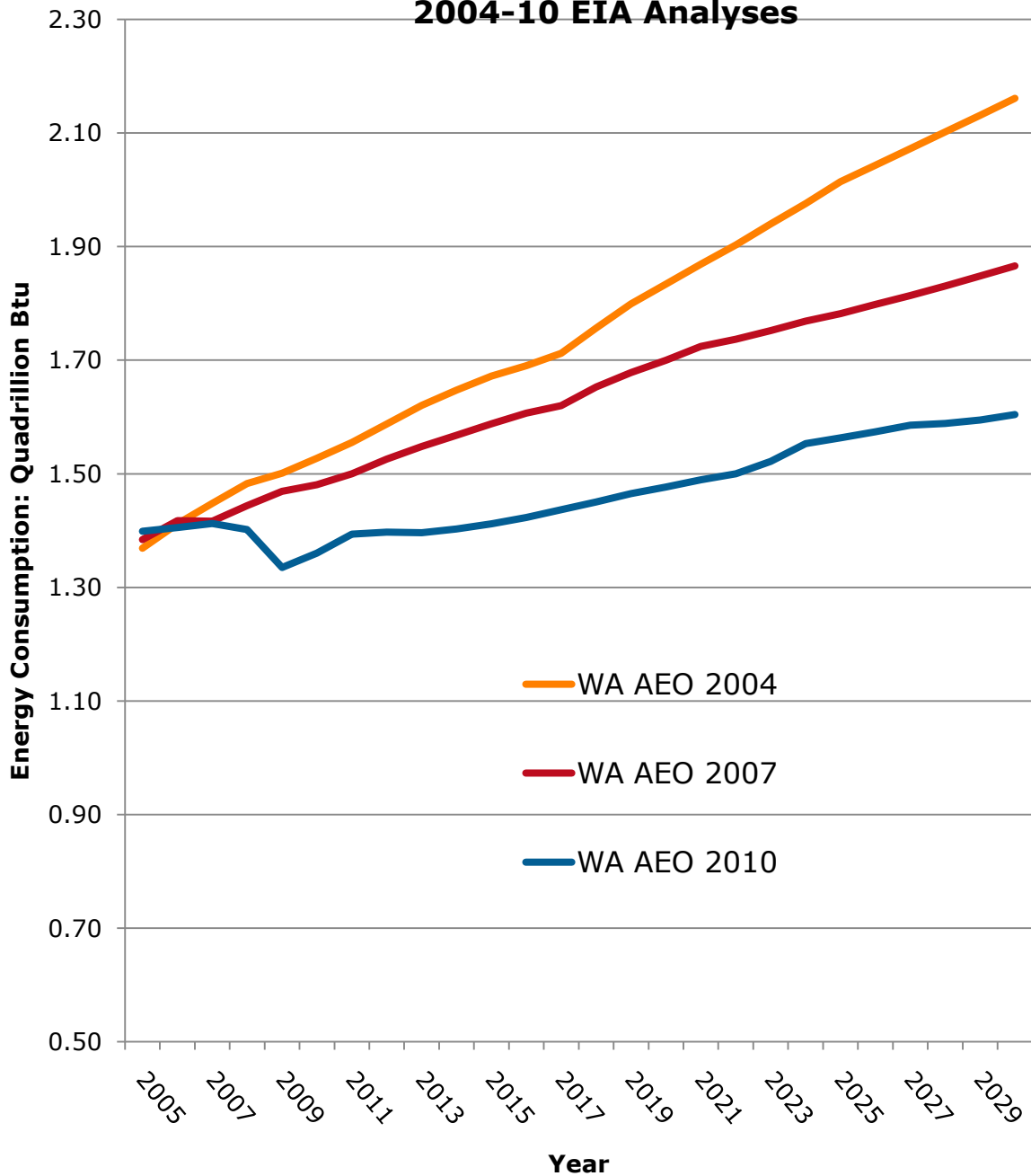


Chart 1: Change in forecast WA energy use 2004 through 2010. Source EIA Annual Energy Outlook. Population adjusted estimate derived using Pacific region forecasts.

AEO2010: Forecast WA Energy Consumption to 2035

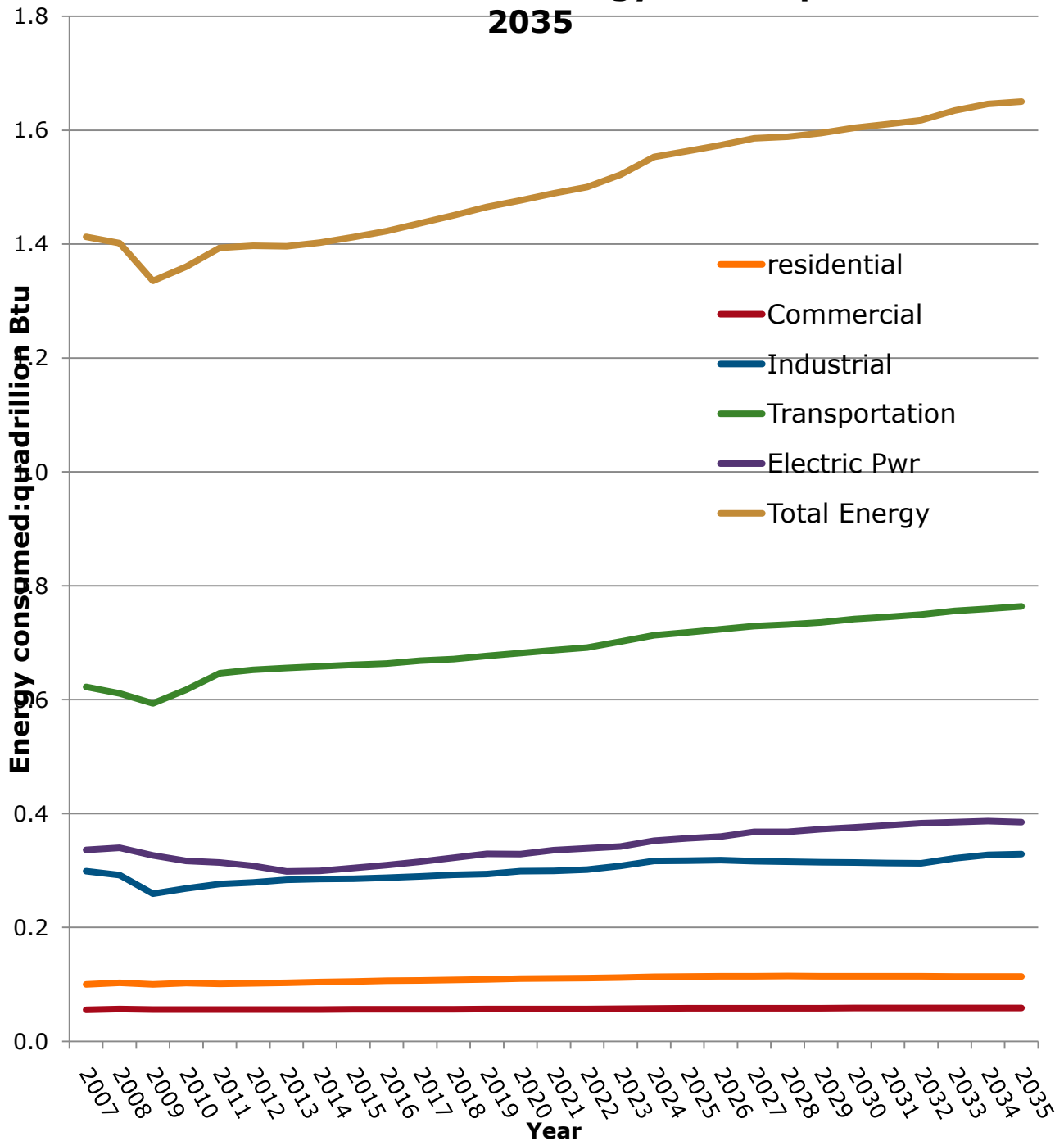


Chart 2: Forecast WA energy use by sector.

As expected transportation is the largest sector. Forecast for moderate growth in the electrical generation sector, slow growth in the industrial sector.

Forecast Transportation Energy Consumption Based on 2004-10 EIA Analyses

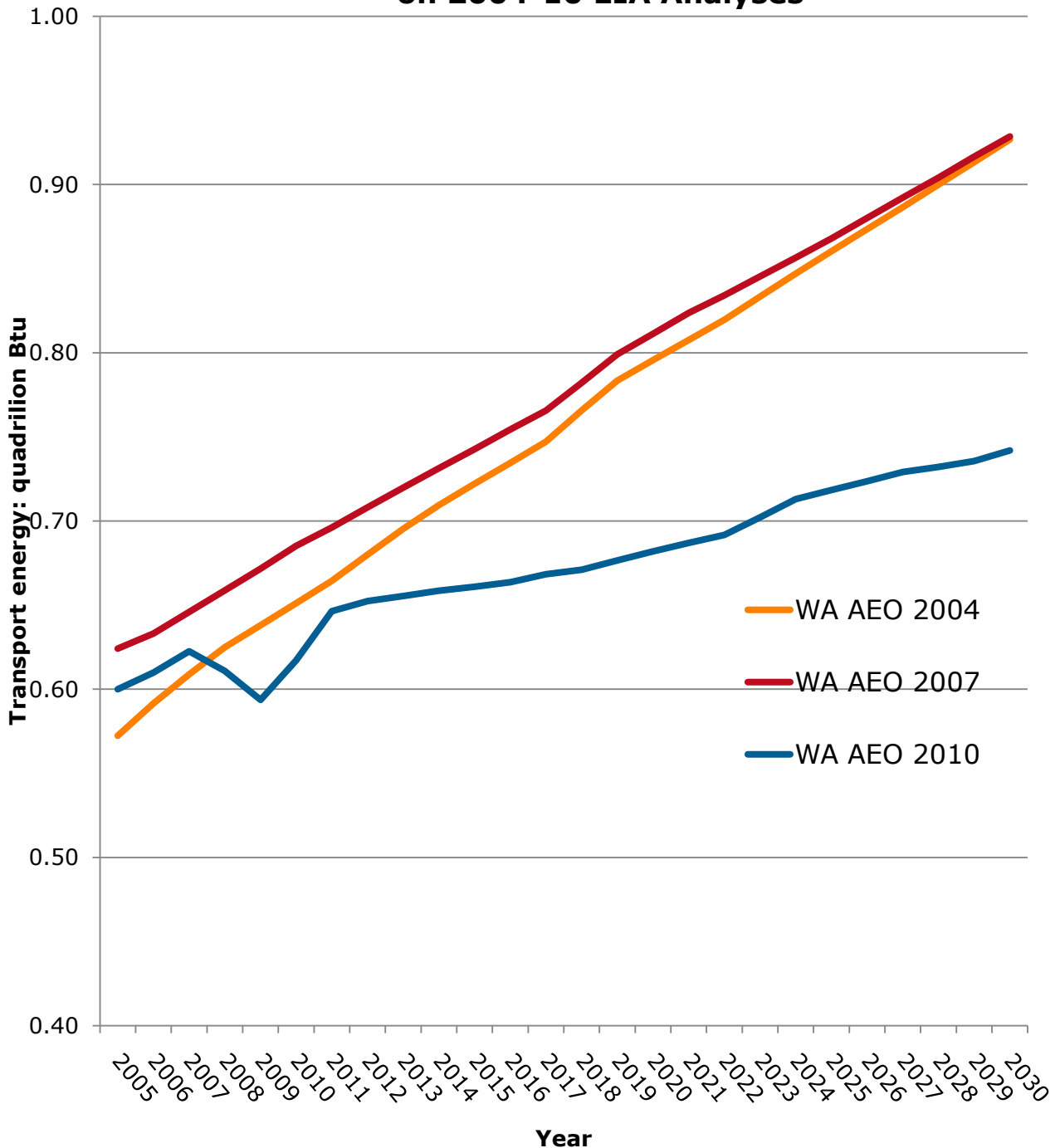


Chart 3: Forecast energy use in the WA transportation sector.

This is transportation with a big T, and includes light duty and heavy duty highway vehicles, planes, trains, and watercraft.

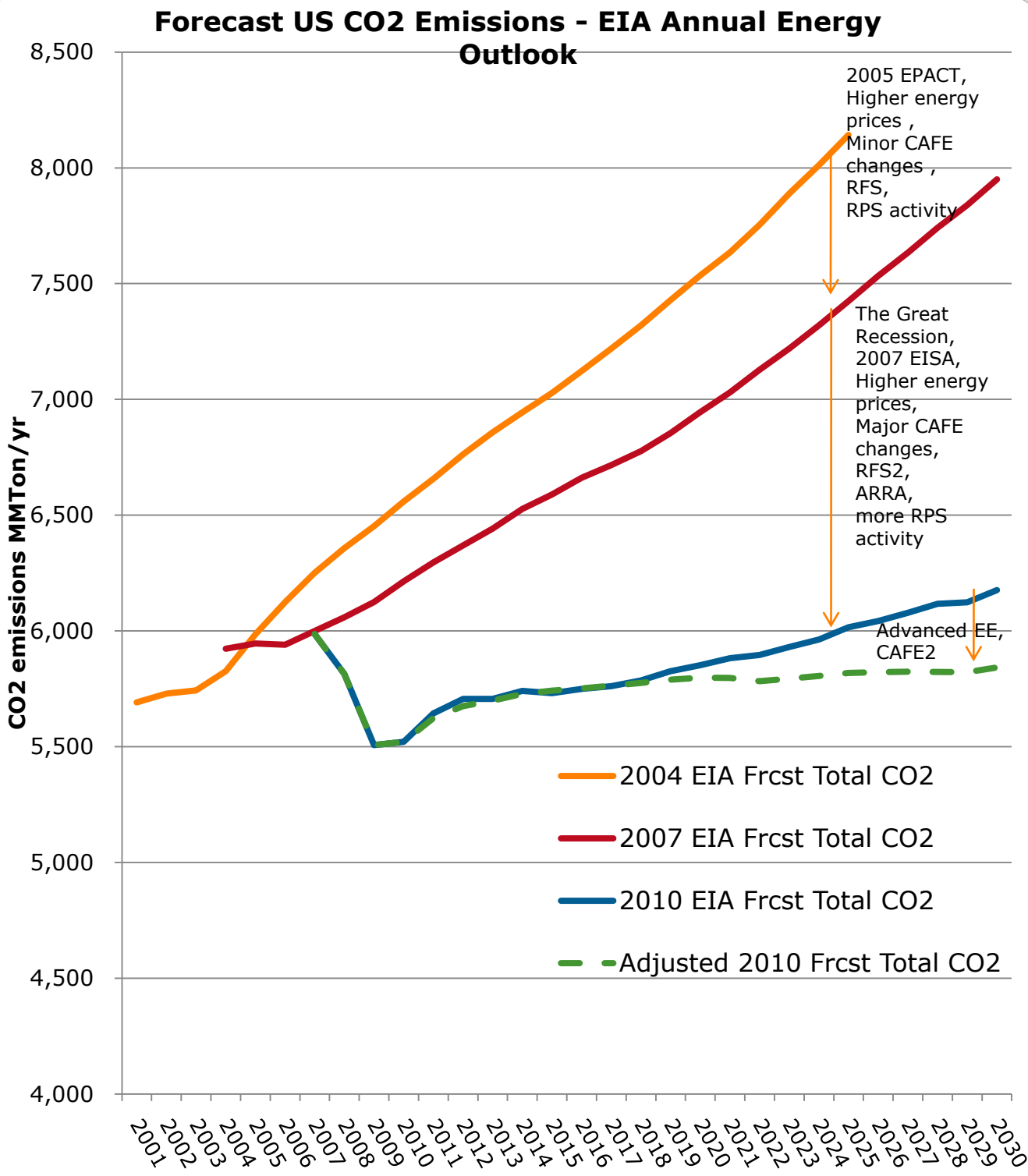


Chart 4: Change in forecast US CO2 emissions AEO 2004-10. Source EIA Annual Energy Outlook. Essentially flat emissions for the 2000-30 time frame.

WA State Forecast CO2 Emissions

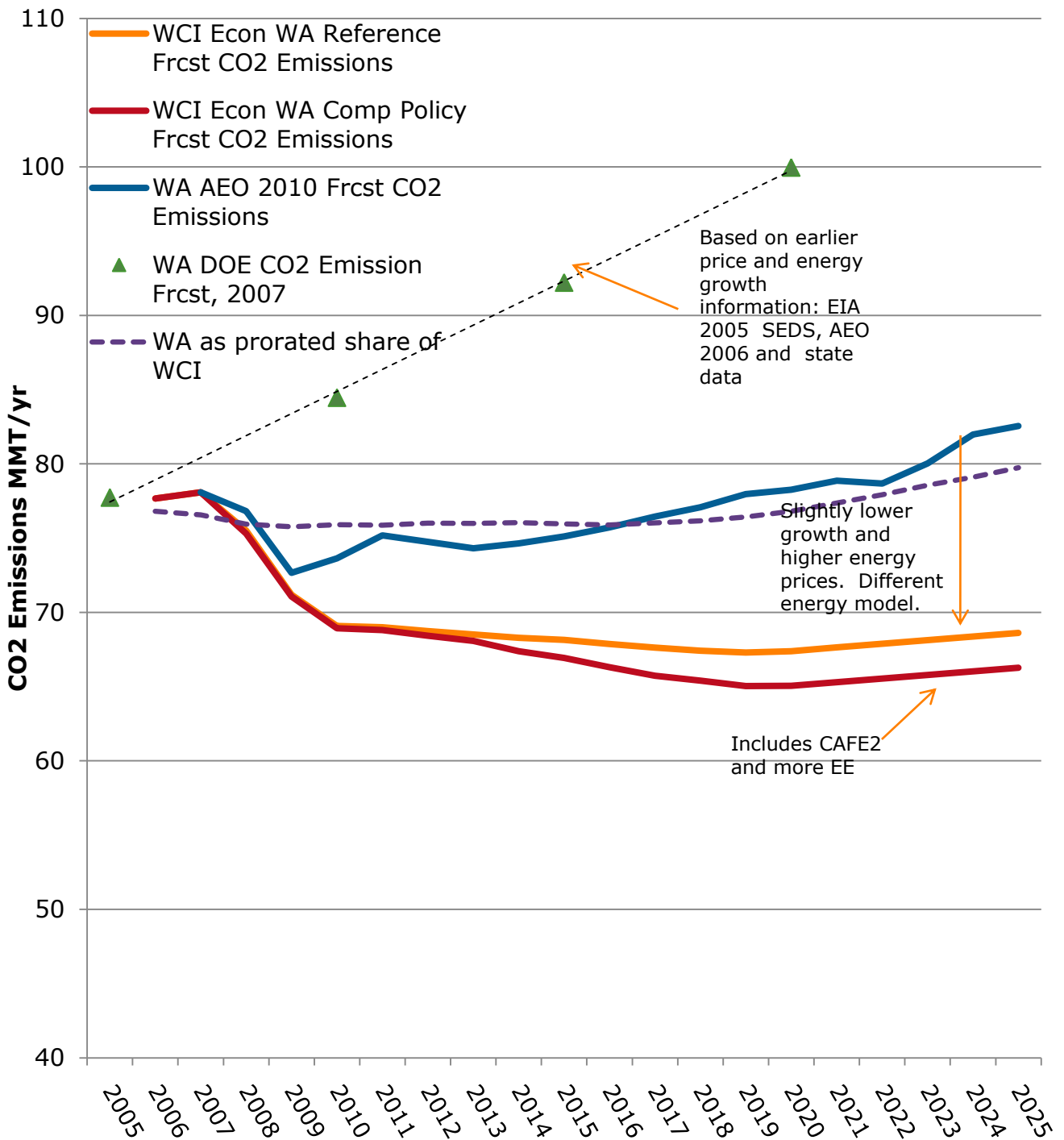


Chart 5: Several forecasts of WA CO2 emissions. More recent forecasts, incorporating recent energy legislation, higher energy prices, and the economic downturn reveal a future with flat emissions.

Future Data and Forecasting Options

- Continue refining the above approach: Derivative of EIA work.
- Finish extracting WA historical energy use from EIA State Energy Data System (SEDS).
- WA SEDS data is useful for illustrating past energy trends.
- Evaluate predictor variables such as forecast population, demographics, commercial activity, GSP for WA SEDS data.
- Use predictor variables to build a WA energy and CO₂ emission forecast through 2035.